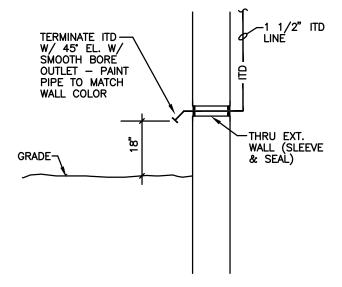
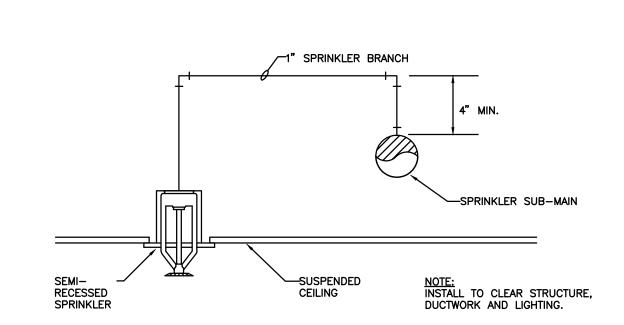


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DETAIL OF SEMI RECESSED SPRINKLER HEAD



DETAIL OF INSPECTOR TEST DRAIN TERMINATE AT EXTERIOR WALL
NO SCALE

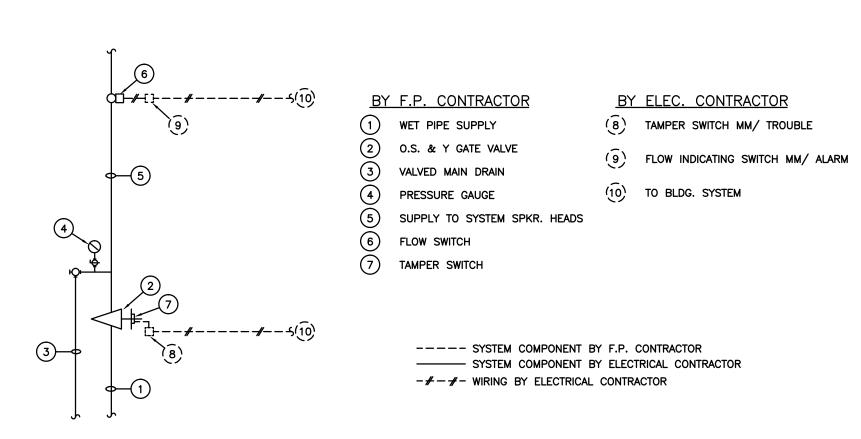


DETAIL OF SPRINKLER HEAD INSTALLATION

SPRINKLER HEAD SCHEDULE								
STYLE	LINKAGE TYPE	FINISH	QUICK RESPONSE	STANDARD	EXTENDED COVERAGE	MIN. TEMP. RATING (*F)	MISC. REQUIRED	AREA(S) TO BE INSTALLED
RECESSED PENDENT	GLASS	3	0	0	0	165	-	ALL AREAS UNLESS NOTE OTHERWISE
PENDENT	GLASS	2	0	0	0	165	_	AREAS WITHOUT CEILINGS
DRY PENDENT	GLASS	1		0	0	165	_	EXTERIOR CANOPY

FINISHES	
1. CHROME PLATE	O NOT APPLICABLE
2. BRASS	
3. WHITE	APPLICABLE
4 BLACK	•

	SYS	TEM DESIG	GN SCHI	EDULE
HAZARD CLASSIFICATION	DENSITY/AREA	MAX. HD. SPACING	HOSE DEMAND	OCCUPANCY
LIGHT	0.10 GPM/1500 S.F.	225 S.F	100 GPM	OFFICES RESIDENT/PATIENT (INCLUDING TOILET ROOMS) PUBLIC AREAS NURSES STATIONS EXAM/TREATMENT PROCEDURE MEDICATION/DIETARY LOCKERS STAFF WORK AREAS CAFETERIA SEATING SHELL SPACE
ORDINARY/GROUP 1	0.15 GPM/1500 S.F.	130 S.F	250 GPM	LAUNDRIES KITCHEN CENTRAL SERVICE MECHANICAL EQUIP. ROOM W/O GAS-FIRED EQUIP. EXTERIOR CANOPY STORAGE, UP TO 8 FEET ELECTRICAL EQUIPMENT COMMUNICATION EQUIPMENT
ORDINARY/GROUP 2	0.20 GPM/1500 S.F. 0.25 GPM/ROOM	130 S.F.	250 GPM	STORAGE, UP TO 12 FEET (COMMODITY, CLASS COUL INCREASE DENSITY & SPACING) PRINTING/MAILING REPAIR GARAGE MECHANICAL EQUIP. ROOM WITH GAS-FIRED EQUIP. EMERGENCY GENERATOR ROOM

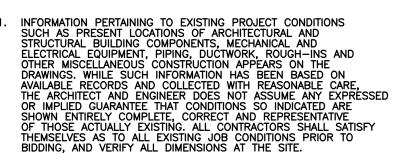


SCHEMATIC OF WET-PIPE SPRINKLER SYSTEM CONTROL RISER

GENERAL NOTES FOR FIRE PROTECTION

- 1. COORDINATE ALL WORK WITH EXISTING CONSTRUCTION TO REMAIN AND NEW WORK OF OTHER TRADES. 2. REFER TO ARCHITECTURAL DRAWINGS FOR THE NEW CEILING WORK AND HV AND ELECTRICAL DRAWINGS FOR LIGHTS,
- 3. PROPER PRECAUTION SHALL BE TAKEN TO KEEP THE BUILDING CLEAN OF DUST, DIRT AND CONSTRUCTION DEBRIS.
- 4. MODIFY EXISTING PIPING FOR NEW SPRINKLER HEAD LOCATION
- 5. FIRE PROTECTION SYSTEMS LOCATED OUTSIDE OF THE CURRENT CONSTRUCTION PHASE OR AREA SHALL BE OPERATIONAL AT THE END OF EACH WORK DAY, UNLESS APPROVED BY THE OWNERS
- 6. SEPARATION OF FIRE PROTECTION ZONES SHALL BE MAINTAINED. REMODELED AREAS SHALL BE PROTECTED BY THE FIRE PROTECTION ZONE CURRENTLY SERVING THE EXISTING AREA.
- 7. MODIFY EXISTING PIPING AS REQUIRED TO COORDINATE WITH WORK OF OTHER CONTRACT DIVISIONS. 8. EXISTING SPRINKLER HEADS ARE SHOWN ON THE DEMOLITION
- PLAN. VERIFY ALL EXISTING FIRE PROTECTION PIPING AND FLOW DATA.
- 9. COMPLY WITH NFPA 13 FOR COVERAGE AND DENSITY.
- 10. ALL EXISTING FIRE PROTECTION SHOWN HATCHED AND/OR DESIGNATED WITH AN "X" SHALL BE REMOVED. ALL FIRE PROTECTION NOT INDICATED TO BE REMOVED SHALL REMAIN.
- REFER TO THE SPECIFICATIONS FOR CUTTING AND PATCHING REQUIREMENTS.
- 12. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE WORK OF THIS CONTRACT UNLESS SPECIFICALLY SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 13. SEAL ALL EXISTING PIPE PENETRATIONS IN EXISTING CONSTRUCTION, WHERE PIPING IS REMOVED, TO MEET FIRE RATING OF THE CONSTRUCTION IN WHICH THEY OCCUR.
- FIRE STOPPING SHALL COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION.

FIRE PROTECTION DEMOLITION NOTES:



- 2. ALL EXISTING FIRE PROTECTION SHOWN HATCHED AND/OR DESIGNATED WITH AN "X" SHALL BE REMOVED. ALL FIRE PROTECTION NOT INDICATED TO BE REMOVED SHALL
- WHERE EXISTING PIPING IS TO BE REMOVED AT A SLAB ON GRADE, CAP EXISTING PIPING FLUSH OR BELOW FLOOR LEVEL SO AS NOT TO INTERFERE WITH NEW FLOOR FINISHES.
- 4. EXISTING PIPING SHALL BE REMOVED BACK TO PIPING TO REMAIN. EXISTING PIPING SHALL NOT BE ABANDONED IN PLACE UNLESS APPROVED BY THE ENGINEER AND OWNER'S REPRESENTATIVE.
- 5. DEMOLITION WORK SHALL BE COORDINATED WITH PHASED CONSTRUCTION. FIRE PROTECTION SYSTEM LOCATED OUTSIDE OF THE CURRENT CONSTRUCTION PHASE SHALL REMAIN OPERATIONAL.
- 6. REFER TO THE SPECIFICATIONS FOR CUTTING AND PATCHING REQUIREMENTS.

7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE WORK OF THIS CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE WITHIN THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.

- 8. SEAL ALL EXISTING PIPE PENETRATIONS IN EXISTING CONSTRUCTION WHERE PIPING IS REMOVED. SEALED PENETRATIONS SHALL MATCH RATING OF THE CONSTRUCTION IN WHICH THEY OCCUR.
- 9. FIRE PROTECTION CONTRACTOR SHALL REMOVE, AND REINSTALL OR REPLACE, EXISTING CEILINGS AS REQUIRED FOR ACCESS TO FIRE PROTECTION SYSTEMS. THIS INCLUDES, AREAS OUTSIDE THE PROJECT CONSTRUCTION LIMITS.
- 10. WHERE EXISTING PIPING IS REMOVED, REMAINING PIPING SHALL BE CAPPED BELOW FINISHED FLOORS, WITHIN WALLS AND ABOVE SUSPENDED CEILINGS.
- 11. SEE SHEETS A001 AND A002 FOR PROJECT PHASING DRAWINGS AND NOTES.

TO INSPECTORS -

SCHEMATIC OF DRY PIPE VALVE ASSEMBLY

NOTE:
DRY PIPE SYSTEM EXCEEDING 500 GALLONS SHALL BE EQUIPPED WITH ACCELERATOR TRIM INCLUDING AN ACCELERATOR AND ANTI-FLOOD DEVICE (NOT SHOWN).

BY F.P. CONTRACTOR BY ELEC. CONTRACTOR

- WATER SUPPLY (S.A.R.) (19) FIRE ALARM SYSTEM INTERFACE FOR FLOW PRESSURE SWITCH (ALARM) WATER SUPPLY CONTROL VALVE (20) FIRE ALARM SYSTEM INTERFACE FOR TAMPER SWITCH
- TAMPER SWITCH (SUPERVISORY) DRY PIPE VALVE (21) TO BLDG. FIRE ALARM SYSTEM VALVED MAIN DRAIN (22) 120V POWER PRESSURE GAUGE FIRE ALARM SYSTEM INTERFACE FOR

LOW AIR PRESSURE (TROUBLE)

(S.A.R. – SIZE AS REQUIRED)

SUPPLY PIPING (S.A.R.) TO SPRINKLERS AIR SUPPLY FROM AIR COMPRESSOR AIR MAINTENANCE DEVICE CLOSED SPRINKLER HEADS DEHYDRATOR

FLOW INDICATOR PRESSURE SWITCH

- COMPRESSOR ON/OFF CONTROL SWITCH AIR COMPRESSOR DRIP CHECK VALVE ALARM TEST VALVE
- PRIMING WATER TEST VALVE LOW AIR PRESSURE SWITCH
- ——— SYSTEM COMPONENT BY F.P. CONTRACTOR ---- SYSTEM COMPONENT BY ELECTRICAL CONTRACTOR
- #-- WIRING BY ELECTRICAL CONTRACTOR (S.A.R.-SIZE AS REQUIRED)

ABBREVIATIONS:

(ALL ABBREVIATIONS SHOWN MAY NOT APPEAR ON DRAWINGS) ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AF/SPL ANTI-FREEZE SPRINKLER LINE

BACKFLOW PREVENTER

CHECK VALVE

DP/SPL DRY PIPE SPRINKLER LINE ELECTRICAL CONTRACTOR

EQUIPMENT

EXIST. EXISTING EXH HD EXHAUST HOOD FIRE DEPARTMENT CONNECTION

FIRE HOSE CABINET

FIRE PROTECTION CONTRACTOR

FIRE PUMP TEST HEADER

INSPECTOR'S TEST & DRAIN VALVE

OPEN SITE DRAIN PRE-ACTION SPRINKLER LINE

PRE-ACTION SYSTEM

PRESSURE GAUGE

PRESSURE SWITCH RM ROOM

SIZE AS REQUIRED SIAMESE CONNECTION/EXPOSED

SIAMESE CONNECTION/FLUSH SC/FS SIAMESE CONNECTION/FREE-STANDING

SIAMESE CONNECTION LINE

SPHD SPRINKLER HEAD

SPRINKLER SPRINKLER LINE/WET PIPE

VALVE WITH TAMPER SWITCH

VALVE CHAINED & LOCKED

—F— FIRE LINE -SP- WET PIPE SPRINKLER LINE -DP/SP- DRY PIPE SPRINKLER LINE —AF/SP— ANTI-FREEZE SPRINKLER LINE --- ITD--- INSPECTORS TEST DRAIN LINE

(ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS)

—SC— SIAMESE CONNECTION LINE

—FPT— FIRE PUMP TEST LINE - INSPECTORS TEST & DRAIN VALVE

*//// EXISTING PIPING TO BE REMOVED FLOW SWITCH

Ø CHECK VALVE PRESSURE GAUGE

PRESSURE SWITCH

FIRE HOSE CONNECTION (IN CABINET) FIRE HOSE CONNECTION (EXPOSED)

SPRINKLER HEAD (REFER TO SCHEDULE ON DRAWINGS FOR TYPE) SIDEWALL SPRINKLER HEAD SPRINKLER HEAD BELOW DUCT OR OVERHEAD DOOR, AS APPLICABLE.

EXISTING SPRINKLER HEAD TO REMAIN EXISTING SPRINKLER HEAD TO BE REMOVED

CONNECT TO EXISTING PIPING

SIAMESE CONNECTION/FLUSH SIAMESE CONNECTION/EXPOSED SIAMESE CONN./FREE-STANDING

EXISTING TO BE REMOVED — DOUBLE CHECK BACKFLOW PREVENTER

TIOI FIRE PUMP TEST HEADER/FREE STANDING FIRE PUMP TEST HEADER/FLUSH

PRESSURE REDUCING VALVE

Date

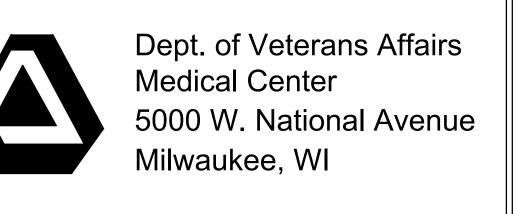
one eighth inch = one foot

4 8 16

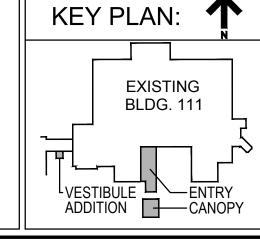
16

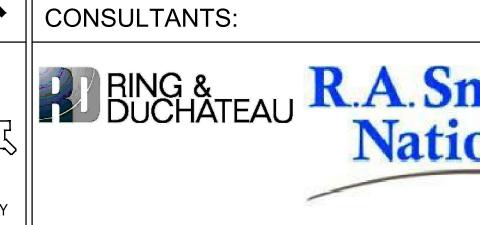
Revisions:

VA FORM 08-6231, OCT 1978











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MANUAL FOR A VODE COM

Drawing Title Fire Protection
Cover Sheet
Approved: Project Director

Project Title					
Building 111 -					
Renovate South Entry					
Tronovato odati	· Litti y				
Location					
Milwaukee, Wisconsin					
Date	Checked By: Drawn By:				

R&D

June 23, 2014

695-12-101SCP Office of **Facilities** Management Drawing Number FP000

FINAL CONSTRUCTION DOCUMENTS



